

**Notice of Allowability**

Application No.

10/635,682

Examiner

Mark Blouin

Applicant(s)

CHOI, UN-JIN

Art Unit

2653

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 1/17/06.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                                 | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

**Detailed Action**

***Claim Rejections - 35 USC § 103***

1. All relevant rejections have been withdrawn as being satisfied.

***Reasons for Allowance***

2. Claims 1-18 are allowed.
3. The following is an examiner's statement of reasons for allowance:

This application is for an optical unit feeding apparatus.

- **Claims 1,2, 10, and 11** specifies an optical unit feeding apparatus, which requires:

*"...an elastic member comprising a first elastic section elastically engaging the contact parts to the spiral groove, and a second elastic section forcing the contact parts not to separate from the spiral groove, wherein a spring constant of the second elastic section is greater than a spring constant of the first elastic section..."*

These features, in combination with the other features of Claims 1,2,10, and 11, are not anticipated by, nor made obvious over, the prior art of record.

- **Claims 4 and 13** specifies an optical unit feeding apparatus, which requires:

*"...wherein a spring constant of the second elastic section is greater than a spring constant of the first elastic section, and wherein the elastic member further comprises a third elastic section to reduce an elastic force of the elastic member when a displacement of the elastic member in the second elastic section would be sufficient, without the third elastic section, to separate the contact pads from the spiral groove."*

These features, in combination with the other features of Claims 4 and 13, are not anticipated by, nor made obvious over, the prior art of record.

- **Claim 7** specifies an optical unit feeding apparatus, which requires:

*"...wherein a spring constant of the second elastic section is greater than a spring constant of the first elastic section, and wherein the elastic member is a coil spring, wherein the first and second elastic sections have different diameters, and a spring constant of the coil spring is inversely proportional to the diameter thereof."*

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These features, in combination with the other features of Claim 7, are not anticipated by, nor made obvious over, the prior art of record.

- **Claims 9 and 16** specifies an optical unit feeding apparatus, which requires:

*“...an elastic member pushing the contact parts toward the spiral groove, wherein the elastic member is a viscoelastic material having a good damping characteristic.”*

These features, in combination with the other features of Claims 9 and 16, are not anticipated by, nor made obvious over, the prior art of record.

- **Claim 17** specifies an optical unit feeding apparatus, which requires:

*“...wherein the viscoelastic force is provided by an viscoelastic member comprising a first elastic section and a second elastic section, and a spring constant of the second elastic section is greater than a spring constant of the first elastic section.”*

These features, in combination with the other features of Claim 17, are not anticipated by, nor made obvious over, the prior art of record.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

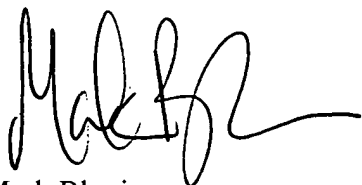
### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The examiner can normally be reached on M-F from 6:00 to 3:30 pm.

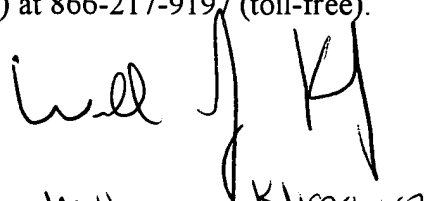
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch, can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Mark Blouin  
Patent Examiner  
Art Unit 2653  
February 23, 2006



William J. Klimowicz  
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Art Unit 2652